

Zhong Li

List of Publications by Year in descending order

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136
papers

7,933
citations

34105

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all docs

137
docs citations

137
times ranked

7569
citing authors

#	ARTICLE	IF	CITATIONS
1	A new MOF-505@GO composite with high selectivity for CO ₂ /CH ₄ and CO ₂ /N ₂ separation. Chemical Engineering Journal, 2017, 308, 1065-1072.	12.7	230
2	Competitive adsorption and selectivity of benzene and water vapor on the microporous metal organic frameworks (HKUST-1). Chemical Engineering Journal, 2015, 259, 79-89.	12.7	220
3	A novel MOF/graphene oxide composite GrO@MIL-101 with high adsorption capacity for acetone. Journal of Materials Chemistry A, 2014, 2, 4722-4730.	10.3	202
4	Metal-Organic Frameworks Significantly Enhance Photocatalytic Hydrogen Evolution and CO ₂ Reduction with Earth-Abundant Copper Photosensitizers. Journal of the American Chemical Society, 2020, 142, 690-695.	13.7	193
5	Carbon nanotube catalysts for oxidative desulfurization of a model diesel fuel using molecular oxygen. Green Chemistry, 2014, 16, 211-220.	9.0	183
6	An ethane-trapping MOF PCN-250 for highly selective adsorption of ethane over ethylene. Chemical Engineering Science, 2018, 175, 110-117.	3.8	177
7	Enhancement of CO ₂ Adsorption and CO ₂ /N ₂ Selectivity on ZIF-8 via Postsynthetic Modification. AIChE Journal, 2013, 59, 2195-2206.	3.6	171
8	Graphene-wrapped chromium-MOF(MIL-101)/sulfur composite for performance improvement of high-rate rechargeable Li-S batteries. Journal of Materials Chemistry A, 2014, 2, 13509-13512.	10.3	171
9	Enhancement of CO ₂ adsorption on high surface area activated carbon modified by N ₂ , H ₂ and ammonia. Chemical Engineering Journal, 2010, 160, 571-577.	12.7	164
10	Adsorption Equilibrium and Kinetics of CO ₂ on Chromium Terephthalate MIL-101. Energy & Fuels, 2011, 25, 835-842.	5.1	149
11	Ethane selective adsorbent Ni(bdc)(ted) _{0.5} with high uptake and its significance in adsorption separation of ethane and ethylene. Chemical Engineering Science, 2016, 148, 275-281.	3.8	141
12	A novel bimetallic MIL-101(Cr, Mg) with high CO ₂ adsorption capacity and CO ₂ /N ₂ selectivity. Chemical Engineering Science, 2016, 147, 109-117.	3.8	136
13	Adsorption and Diffusion of Benzene on Chromium-Based Metal Organic Framework MIL-101 Synthesized by Microwave Irradiation. Industrial & Engineering Chemistry Research, 2011, 50, 2254-2261.	3.7	127
14	Effects of Aromatics, Diesel Additives, Nitrogen Compounds, and Moisture on Adsorptive Desulfurization of Diesel Fuel over Activated Carbon. Industrial & Engineering Chemistry Research, 2012, 51, 3436-3443.	3.7	124
15	Preparation and Adsorption Performance of GrO@Cu-BTC for Separation of CO ₂ /CH ₄ . Industrial & Engineering Chemistry Research, 2014, 53, 11176-11184.	3.7	124
16	Ultrafast room temperature synthesis of GrO@HKUST-1 composites with high CO ₂ adsorption capacity and CO ₂ /N ₂ adsorption selectivity. Chemical Engineering Journal, 2016, 303, 231-237.	12.7	117
17	Experimental and molecular simulation studies of CO ₂ adsorption on zeolitic imidazolate frameworks: ZIF-8 and amine-modified ZIF-8. Adsorption, 2013, 19, 25-37.	3.0	115
18	Highly enhanced and weakened adsorption properties of two MOFs by water vapor for separation of CO ₂ /CH ₄ and CO ₂ /N ₂ binary mixtures. Chemical Engineering Journal, 2015, 270, 385-392.	12.7	115

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19	Adsorption of Benzothiophene and Dibenzothiophene on Ion-Impregnated Activated Carbons and Ion-Exchanged Y Zeolites. <i>Energy & Fuels</i> , 2008, 22, 3858-3863.	5.1	112
20	Selective Adsorption of Ethane over Ethylene in PCN-245: Impacts of Interpenetrated Adsorbent. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8366-8373.	8.0	112
21	Vanadium Catalyst on Isostructural Transition Metal, Lanthanide, and Actinide Based Metal-Organic Frameworks for Alcohol Oxidation. <i>Journal of the American Chemical Society</i> , 2019, 141, 8306-8314.	13.7	112
22	Adsorption of CO ₂ on Zeolite 13X and Activated Carbon with Higher Surface Area. <i>Separation Science and Technology</i> , 2010, 45, 710-719.	2.5	109
23	Enhanced separation performance of a novel composite material GrO@MIL-101 for CO ₂ /CH ₄ binary mixture. <i>Chemical Engineering Journal</i> , 2015, 266, 339-344.	12.7	106
24	Efficient Mechanochemical Synthesis of MOF-5 for Linear Alkanes Adsorption. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2030-2036.	1.9	101
25	Structural Diversity of Zirconium Metal-Organic Frameworks and Effect on Adsorption of Toxic Chemicals. <i>Journal of the American Chemical Society</i> , 2020, 142, 21428-21438.	13.7	95
26	Competitive adsorption of water vapor with VOCs dichloroethane, ethyl acetate and benzene on MIL-101(Cr) in humid atmosphere. <i>RSC Advances</i> , 2015, 5, 1827-1834.	3.6	92
27	Asphalt-derived high surface area activated porous carbons for the effective adsorption separation of ethane and ethylene. <i>Chemical Engineering Science</i> , 2017, 162, 192-202.	3.8	92
28	Efficient kinetic separation of propene and propane using two microporous metal organic frameworks. <i>Chemical Communications</i> , 2017, 53, 9332-9335.	4.1	91
29	Pore environment engineering in metal-organic frameworks for efficient ethane/ethylene separation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13585-13590.	10.3	91
30	Highly Adsorptive Separation of Ethane/Ethylene by An Ethane-Selective MOF MIL-142A. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 4063-4069.	3.7	88
31	Substantial Recoverable Energy Storage in Percolative Metallic Aluminum-Polypropylene Nanocomposites. <i>Advanced Functional Materials</i> , 2013, 23, 3560-3569.	14.9	87
32	Novel room-temperature synthesis of MIL-100(Fe) and its excellent adsorption performances for separation of light hydrocarbons. <i>Chemical Engineering Journal</i> , 2019, 355, 679-686.	12.7	82
33	Efficient adsorptive separation of C ₃ H ₆ over C ₃ H ₈ on flexible and thermoresponsive CPL-1. <i>Chemical Engineering Journal</i> , 2017, 328, 360-367.	12.7	81
34	Metal-Organic Frameworks Integrate Cu Photosensitizers and Secondary Building Unit-Supported Fe Catalysts for Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020, 142, 10302-10307.	13.7	79
35	Liquid-Assisted Mechanochemical Synthesis of Copper Based MOF-505 for the Separation of CO ₂ over CH ₄ or N ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 703-709.	3.7	78
36	Adsorption equilibrium and kinetics of p-xylene on chromium-based metal organic framework MIL-101. <i>Chemical Engineering Journal</i> , 2011, 173, 150-157.	12.7	77

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37	An Overview of Adsorbents in the Rotary Desiccant Dehumidifier for Air Dehumidification. <i>Drying Technology</i> , 2013, 31, 1334-1345.	3.1	77
38	Catalytic adsorptive desulfurization of model diesel fuel using TiO ₂ /SBA-15 under mild conditions. <i>Fuel</i> , 2016, 174, 118-125.	6.4	67
39	Highly selective adsorption separation of light hydrocarbons with a porphyrinic zirconium metal-organic framework PCN-224. <i>Separation and Purification Technology</i> , 2018, 207, 262-268.	7.9	67
40	Formation of willow leaf-like structures composed of NH ₂ -MIL68(In) on a multifunctional multiwalled carbon nanotube backbone for enhanced photocatalytic reduction of Cr(VI). <i>Nano Research</i> , 2017, 10, 3543-3556.	10.4	65
41	Metal-Organic Framework Stabilizes a Low-Coordinate Iridium Complex for Catalytic Methane Borylation. <i>Journal of the American Chemical Society</i> , 2019, 141, 11196-11203.	13.7	65
42	Highly stable PtP alloy nanotube arrays as a catalyst for the oxygen reduction reaction in acidic medium. <i>Chemical Science</i> , 2015, 6, 3211-3216.	7.4	63
43	Selective Adsorption Performances of UiO-67 for Separation of Light Hydrocarbons C ₁ , C ₂ , and C ₃ . <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 8689-8696.	3.7	63
44	Chemoselective Hydrogenation of Cinnamaldehyde over a Pt-Lewis Acid Collaborative Catalyst under Ambient Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 1487-1497.	3.7	60
45	Selective Adsorption of Light Alkanes on a Highly Robust Indium Based Metal-Organic Framework. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4488-4495.	3.7	59
46	Zirconium-Based Metal-Organic Framework with 9-Connected Nodes for Ammonia Capture. <i>ACS Applied Nano Materials</i> , 2019, 2, 6098-6102.	5.0	59
47	Adsorption of Dibenzothiophene on Ag/Cu/Fe-Supported Activated Carbons Prepared by Ultrasonic-Assisted Impregnation. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 5818-5823.	1.9	57
48	Novel nitrogen-rich porous carbon spheres as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16617-16622.	10.3	57
49	Unusual Moisture-Enhanced CO ₂ Capture within Microporous PCN-250 Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38638-38647.	8.0	57
50	Synthesis of novel particle rice-based carbon materials and its excellent CH ₄ /N ₂ adsorption selectivity for methane enrichment from Low-rank natural gas. <i>Chemical Engineering Journal</i> , 2020, 384, 123388.	12.7	57
51	Tuning secondary building unit of Cu-BTC to simultaneously enhance its CO ₂ selective adsorption and stability under moisture. <i>Chemical Engineering Journal</i> , 2019, 355, 815-821.	12.7	56
52	Preparation and oxygen permeation of U-shaped perovskite hollow fiber membranes. <i>AIChE Journal</i> , 2011, 57, 975-984.	3.6	55
53	Novel glucose-based adsorbents (Glc-Cs) with high CO ₂ capacity and excellent CO ₂ /CH ₄ /N ₂ adsorption selectivity. <i>Chemical Engineering Journal</i> , 2017, 327, 51-59.	12.7	54
54	Metal-organic framework MIL-101 doped with palladium for toluene adsorption and hydrogen storage. <i>RSC Advances</i> , 2013, 4, 2414-2420.	3.6	52

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55	Ultrafast room temperature synthesis of novel composites Imi@Cu-BTC with improved stability against moisture. <i>Chemical Engineering Journal</i> , 2017, 307, 537-543.	12.7	51
56	Dynamic catalytic adsorptive desulfurization of real diesel over ultra-stable and low-cost silica gel-supported TiO ₂ . <i>AIChE Journal</i> , 2018, 64, 2146-2159.	3.6	51
57	Ultrahigh CO ₂ /CH ₄ and CO ₂ /N ₂ adsorption selectivities on a cost-effectively L-aspartic acid based metal-organic framework. <i>Chemical Engineering Journal</i> , 2019, 375, 122074.	12.7	50
58	Enhancing Selective Adsorption in a Robust Pillared-Layer Metal-Organic Framework via Channel Methylation for the Recovery of C ₂ -C ₃ from Natural Gas. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51499-51505.	8.0	50
59	Adsorption Isotherms, Kinetics, and Desorption of 1,2-Dichloroethane on Chromium-Based Metal Organic Framework MIL-101. <i>Separation Science and Technology</i> , 2013, 48, 1479-1489.	2.5	49
60	An indium-based ethane-trapping MOF for efficient selective separation of C ₂ H ₆ /C ₂ H ₄ mixture. <i>Separation and Purification Technology</i> , 2019, 212, 51-56.	7.9	49
61	Cerium-Based Metal-Organic Layers Catalyze Hydrogen Evolution Reaction through Dual Photoexcitation. <i>Journal of the American Chemical Society</i> , 2020, 142, 6866-6871.	13.7	49
62	Selective Adsorptive Separation of CO ₂ /CH ₄ and CO ₂ /N ₂ by a Water Resistant Zirconium-Porphyrin Metal-Organic Framework. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 12215-12224.	3.7	48
63	Insights into the Structure-Activity Relationship in Aerobic Alcohol Oxidation over a Metal-Organic-Framework-Supported Molybdenum(VI) Catalyst. <i>Journal of the American Chemical Society</i> , 2021, 143, 4302-4310.	13.7	48
64	Oxygen separation through U-shaped hollow fiber membrane using pure CO ₂ as sweep gas. <i>AIChE Journal</i> , 2012, 58, 2856-2864.	3.6	47
65	Integration of Earth-Abundant Photosensitizers and Catalysts in Metal-Organic Frameworks Enhances Photocatalytic Aerobic Oxidation. <i>ACS Catalysis</i> , 2021, 11, 1024-1032.	11.2	47
66	A CO ₂ -stable hollow fiber membrane with high hydrogen permeation flux. <i>AIChE Journal</i> , 2015, 61, 1997-2007.	3.6	45
67	Lubrication Properties of Polyalphaolefin and Polysiloxane Lubricants: Molecular Structure-Tribology Relationships. <i>Tribology Letters</i> , 2012, 48, 355.	2.6	44
68	Effect of Textural Properties on the Adsorption and Desorption of Toluene on the Metal-Organic Frameworks HKUST-1 and MIL-101. <i>Adsorption Science and Technology</i> , 2013, 31, 325-339.	3.2	44
69	Decomposition of Toluene in a Plasma Catalysis System with NiO, MnO ₂ , CeO ₂ , Fe ₂ O ₃ , and CuO Catalysts. <i>Plasma Chemistry and Plasma Processing</i> , 2013, 33, 1073-1082.	2.4	43
70	A novel carbonized polydopamine (CPDA) adsorbent with high CO ₂ adsorption capacity and water vapor resistance. <i>AIChE Journal</i> , 2016, 62, 3730-3738.	3.6	43
71	Iron-Based Metal-Organic Framework with Hydrophobic Quadrilateral Channels for Highly Selective Separation of Hexane Isomers. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6031-6038.	8.0	43
72	Improving CH ₄ /N ₂ selectivity within isomeric Al-based MOFs for the highly selective capture of coal-mine methane. <i>AIChE Journal</i> , 2020, 66, e16287.	3.6	42

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73	Oxygen permeation through a CO ₂ -tolerant mixed conducting oxide (Pr _{0.9} La _{0.1}) ₂ (Ni _{0.74} Cu _{0.21} Ga _{0.05}) ₂ O ₇ . AICHE Journal, 2012, 58, 2473-2478.	10.6	441
74	Ethane-selective carbon composites CPDA@AACs with high uptake and its enhanced ethane/ethylene adsorption selectivity. AICHE Journal, 2018, 64, 3390-3399.	3.6	41
75	Novel asphalt-based carbon adsorbents with super-high adsorption capacity and excellent selectivity for separation for light hydrocarbons. Separation and Purification Technology, 2018, 190, 60-67.	7.9	40
76	Insights into the Structure-Activity Relationships in Metal-Organic Framework-Supported Nickel Catalysts for Ethylene Hydrogenation. ACS Catalysis, 2020, 10, 8995-9005.	11.2	40
77	Binder-free Co-CoO _x nanowire arrays for lithium ion batteries with excellent rate capability and ultra-long cycle life. Journal of Materials Chemistry A, 2015, 3, 19711-19717.	10.3	39
78	Selectively Trapping Ethane from Ethylene on Metal-Organic Framework MIL-53(Al)-FA. Industrial & Engineering Chemistry Research, 2019, 58, 8290-8295.	3.7	39
79	Facile synthesis of ultramicroporous carbon adsorbents with ultra-high $\langle \text{CH}_4 \rangle$ uptake by in situ ionic activation. AICHE Journal, 2020, 66, e16231.	3.6	39
80	Postsynthetic Strategy To Prepare ACN@Cu-BTCs with Enhanced Water Vapor Stability and CO ₂ /CH ₄ Separation Selectivity. Industrial & Engineering Chemistry Research, 2018, 57, 3765-3772.	3.7	37
81	Glycine-Modified HKUST-1 with Simultaneously Enhanced Moisture Stability and Improved Adsorption for Light Hydrocarbons Separation. ACS Sustainable Chemistry and Engineering, 2019, 7, 1557-1563.	6.7	37
82	Selective extraction of methane from C1/C2/C3 on moisture-resistant MIL-142A with interpenetrated networks. Chemical Engineering Journal, 2020, 395, 125057.	12.7	36
83	Bimetallic ions regulate pore size and chemistry of zeolites for selective adsorption of ethylene from ethane. Chemical Engineering Science, 2020, 220, 115636.	3.8	36
84	Dynamics and isotherms of water vapor sorption on mesoporous silica gels modified by different salts. Kinetics and Catalysis, 2010, 51, 754-761.	1.0	35
85	Removal of organic sulfur compounds from diesel by adsorption on carbon materials. Reviews in Chemical Engineering, 2015, 31, .	4.4	34
86	Highly active and selective Co-based Fischer-Tropsch catalysts derived from metal-organic frameworks. AICHE Journal, 2017, 63, 2935-2944.	3.6	34
87	Zeolitic Imidazolate Framework Membranes Supported on Macroporous Carbon Hollow Fibers by Fluidic Processing Techniques. Advanced Materials Interfaces, 2017, 4, 1700080.	3.7	34
88	Efficient adsorptive separation of propene over propane through a pillar-layer cobalt-based metal-organic framework. AICHE Journal, 2020, 66, e16858.	3.6	34
89	Adsorption and Diffusion of Ethyl Acetate on the Chromium-Based Metal-Organic Framework MIL-101. Journal of Chemical & Engineering Data, 2011, 56, 3419-3425.	1.9	32
90	S/O-Functionalities on Modified Carbon Materials Governing Adsorption of Water Vapor. Journal of Physical Chemistry C, 2013, 117, 23057-23065.	3.1	32

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91	Tuning the Structural Flexibility for Multi-Responsive Gas Sorption in Isonicotinate-Based Metal-Organic Frameworks. ACS Applied Materials & Interfaces, 2021, 13, 16820-16827.	8.0	31
92	Novel glucose-based adsorbents (Glc-As) with preferential adsorption of ethane over ethylene and high capacity. Chemical Engineering Science, 2017, 172, 612-621.	3.8	30
93	Catalytic Degradation of Polyethylene Terephthalate Using a Phase-Transitional Zirconium-Based Metal-Organic Framework. Angewandte Chemie - International Edition, 2022, 61, .	13.8	30
94	Moisture stability of ethane-selective Ni(II), Fe(III), Zr(IV)-based metal-organic frameworks. AIChE Journal, 2019, 65, e16616.	3.6	28
95	Enhanced CO ₂ Adsorption and CO ₂ /N ₂ /CH ₄ Selectivity of Novel Carbon Composites CPDA@A-Cs. Energy & Fuels, 2019, 33, 493-502.	5.1	28
96	Influence of the microporosity and surface chemistry of polymeric resins on adsorptive properties toward phenol. Journal of Hazardous Materials, 2004, 113, 131-135.	12.4	27
97	Ultramicroporous carbons featuring sub-ångstrom tunable apertures for the selective separation of light hydrocarbon. AIChE Journal, 2021, 67, e17285.	3.6	27
98	Preparation of CuCl@AC with high CO adsorption capacity and selectivity from CO/N ₂ binary mixture. Adsorption, 2015, 21, 373-381.	3.0	26
99	Estimation of Activation Energy of Desorption of n-Hexanol from Activated Carbons by the TPD Technique. Adsorption Science and Technology, 2003, 21, 125-133.	3.2	25
100	Partial oxidation of methane in hollow-fiber membrane reactors based on alkaline-earth metal-free CO ₂ -tolerant oxide. AIChE Journal, 2014, 60, 3587-3595.	3.6	25
101	Design, Synthesis, and Characterization of a Bifunctional Chelator with Ultrahigh Capacity for Uranium Uptake from Seawater Simulant. Industrial & Engineering Chemistry Research, 2016, 55, 4170-4178.	3.7	25
102	Room temperature synthesis of Cu(Qc) ₂ and its application for ethane capture from light hydrocarbons. Chemical Engineering Science, 2020, 213, 115355.	3.8	25
103	A novel mechanism of controlling ultramicropore size in carbons at sub-ångstrom level for molecular sieving of propylene/propane mixtures. Journal of Materials Chemistry A, 2021, 9, 23873-23881.	10.3	25
104	Improved Ethanol Adsorption Capacity and Coefficient of Performance for Adsorption Chillers of Cu-BTC@GO Composite Prepared by Rapid Room Temperature Synthesis. Industrial & Engineering Chemistry Research, 2016, 55, 11767-11774.	3.7	24
105	Thermal stability of phosphorus-containing styrene-acrylic copolymer and its fire retardant performance in waterborne intumescent coatings. Journal of Thermal Analysis and Calorimetry, 2013, 114, 937-946.	3.6	23
106	Desulfurization Kinetics and Regeneration of Silica Gel-Supported TiO ₂ Extrudates for Reactive Adsorptive Desulfurization of Real Diesel. Industrial & Engineering Chemistry Research, 2020, 59, 10130-10141.	3.7	23
107	Equilibrium and Do ⁺ Do Model Fitting of Water Adsorption on Four Commercial Activated Carbons with Different Surface Chemistry and Pore Structure. Journal of Chemical & Engineering Data, 2010, 55, 5729-5732.	1.9	21
108	Flexible and mechanically-stable MIL-101(Cr)@PFs for efficient benzene vapor and CO ₂ adsorption. RSC Advances, 2015, 5, 94276-94282.	3.6	21

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109	Graphene-Immobilized $\text{Re}(\text{bipy})(\text{CO})_3\text{Cl}$ for Syngas Generation from Carbon Dioxide. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4192-4198.	8.0	21
110	Heterometallic $\text{Ce}^{\text{IV}}/\text{V}^{\text{V}}$ Oxo Clusters with Adjustable Catalytic Reactivities. <i>Journal of the American Chemical Society</i> , 2021, 143, 21056-21065.	13.7	21
111	Controllable oxidation of sulfides to sulfoxides and sulfones with aqueous hydrogen peroxide in the presence of β -cyclodextrin. <i>Russian Journal of Organic Chemistry</i> , 2006, 42, 959-961.	0.8	20
112	Enhanced Adsorption Performance of Aromatics on a Novel Chromium-Based MIL-101@Graphite Oxide Composite. <i>Energy & Fuels</i> , 2017, 31, 13985-13990.	5.1	20
113	Effect of ultrasound on desorption kinetics of phenol from polymeric resin. <i>Ultrasonics Sonochemistry</i> , 2006, 13, 225-231.	8.2	19
114	Oxygen-Selective Adsorption Property of Ultramicroporous MOF $\text{Cu}(\text{Qc})_2$ for Air Separation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6219-6225.	3.7	18
115	Robust Nickel-Based Metal-Organic Framework for Highly Efficient Methane Purification and Capture. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4242-4250.	8.0	17
116	Ethane-Selective Behavior Achieved on a Nickel-Based Metal-Organic Framework: Impact of Pore Effect and Hydrogen Bonds. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10516-10523.	3.7	15
117	Ultra-Deep Desulfurization of Real Diesel Using Two-Layer Silica Gels under Mild Conditions. <i>Energy & Fuels</i> , 2019, 33, 7287-7296.	5.1	14
118	Highly Efficient Capture of Postcombustion Generated CO_2 through a Copper-Based Metal-Organic Framework. <i>Energy & Fuels</i> , 2021, 35, 610-617.	5.1	14
119	High-Performance Selective CO_2 Capture on a Stable and Flexible Metal-Organic Framework via Discriminatory Gate-Opening Effect. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21089-21097.	8.0	14
120	Oxy-fuel combustion for CO_2 capture using a CO_2 -tolerant oxygen transporting membrane. <i>AIChE Journal</i> , 2013, 59, 3856-3862.	3.6	13
121	Rapid room temperature conversion of hydroxy double salt to MOF-505 for CO_2 capture. <i>CrystEngComm</i> , 2019, 21, 165-171.	2.6	13
122	Adsorption Property of Starch-Based Microporous Carbon Materials with High Selectivity and Uptake for $\text{C}_1/\text{C}_2/\text{C}_3$ Separation. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 4668-4676.	3.7	13
123	Room-Temperature Synthesis of $\text{Pyr}_{1/3}@Cu^{\text{BTC}}$ with Enhanced Stability and Its Excellent Performance for Separation of Propylene/Propane. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6202-6209.	3.7	12
124	Tuning the Atrazine Binding Sites in an Indium-Based Flexible Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44762-44768.	8.0	11
125	The modulation of ethane-selective adsorption performance in series of bimetal PCN -250 metal-organic frameworks: Impact of metal composition. <i>AIChE Journal</i> , 2022, 68, e17385.	3.6	11
126	Regeneration of $\text{AgXO}@SBA-15$ for reactive adsorptive desulfurization of fuel. <i>Petroleum Science</i> , 2018, 15, 857-869.	4.9	10

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127	Novel Granular Biomass-Based Carbons with Excellent C ₂ H ₆ /CH ₄ Selectivity for Recovering Light Hydrocarbons from Natural Gas. ACS Sustainable Chemistry and Engineering, 2022, 10, 5633-5642.	6.7	9
128	Role of Temperature in the Structure of Zn(II)-1,4-BDC Metal-Organic Frameworks and their Adsorption and Diffusion Properties for Carbon Dioxide. Separation Science and Technology, 2011, 46, 1337-1345.	2.5	7
129	Competitive Adsorption of Carbon Monoxide and Water Vapour on MIL-100(Fe) Prepared Using a Microwave Method. Adsorption Science and Technology, 2015, 33, 279-296.	3.2	7
130	Separation of propylene and propane with pillar-layer metal-organic frameworks by exploiting thermodynamic-kinetic synergetic effect. Chemical Engineering Journal, 2022, 431, 133284.	12.7	7
131	Preferential Adsorption Performance of Ethane in a Robust Nickel-Based Metal-Organic Framework for Separating Ethane from Ethylene. ACS Omega, 2022, 7, 7648-7654.	3.5	7
132	Mechanistic Investigation of Enhanced Catalytic Selectivity toward Alcohol Oxidation with Ce Oxysulfate Clusters. Journal of the American Chemical Society, 2022, 144, 12092-12101.	13.7	6
133	Î²-Cyclodextrin promoted oxidation of primary amines to nitriles in water. Frontiers of Chemical Engineering in China, 2009, 3, 196-200.	0.6	4
134	Catalytic Degradation of Polyethylene Terephthalate Using a Phase-Transitional Zirconium-Based Metal-Organic Framework. Angewandte Chemie, 2022, 134, .	2.0	4
135	Catalytic adsorptive desulfurization of mercaptan, sulfide and disulfide using bifunctional Ti-based adsorbent for ultra-clean oil. Chinese Journal of Chemical Engineering, 2022, 42, 25-34.	3.5	2
136	Estimation of kinetics parameters in Beckmann rearrangement of cyclohexanone oxime using genetic algorithm. Central South University, 2006, 13, 383-388.	0.5	1